

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference N. 94846	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/IB2005/002828	International filing date (day/month/year) 04/08/2005	(Earliest) Priority Date (day/month/year) 19/08/2004
Applicant TOYOTA JIDOSHA KABUSHIKI KAISHA		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).**3. ☐ Unity of invention is lacking (see Box III).****4. With regard to the title,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2005/002828

A. CLASSIFICATION OF SUBJECT MATTER
F01L9/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
F01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 199 55 054 A1 (LEIBER, HEINZ) 17 August 2000 (2000-08-17) column 1, lines 3,4 column 4, lines 59-66 column 6, lines 54-61 figures 8a-8e	1
A	DE 102 03 262 A1 (LEIBER, HEINZ) 31 July 2003 (2003-07-31) paragraph '0018! figures 1,2	1
A	FR 2 792 451 A (RENAULT) 20 October 2000 (2000-10-20) page 1, lines 3-10 page 5, line 4 - page 6, line 10 page 8, lines 3-8 figures 1-3	1
-/--		



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

16 January 2006

Date of mailing of the international search report

31/01/2006

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2005/002828

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 08, 6 October 2000 (2000-10-06) & JP 2000 130123 A (DENSO CORP), 9 May 2000 (2000-05-09) cited in the application abstract; figures 1-3 -----	1,5,7
A	DE 199 18 993 A1 (DAIMLERCHRYSLER AG) 28 September 2000 (2000-09-28) column 1, lines 3-5 column 5, line 58 - column 6, line 21 column 7, line 50 - column 8, line 17 figures 1,4,5 -----	1,5,7
A	EP 0 915 319 A (ISUZU CERAMICS RESEARCH INSTITUTE CO., LTD) 12 May 1999 (1999-05-12) - paragraph '0001! paragraph '0026! paragraph '0029! paragraph '0031! paragraph '0033! figures 1-3 -----	1,5,7

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2005/002828

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 19955054	A1	17-08-2000	NONE
DE 10203262	A1	31-07-2003	NONE
FR 2792451	A	20-10-2000	NONE
JP 2000130123	A	09-05-2000	NONE
DE 19918993	A1	28-09-2000	NONE
EP 0915319	A	12-05-1999	JP 11142103 A 28-05-1999